



*polymers*



*Special Issue Reprint*

## **Advanced Polymer Composite Materials: Processing, Modeling, Properties and Applications**

**II**

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Composite materials lie at the forefront of multi- and interdisciplinary research, uniting experts in materials science, polymer and inorganic chemistry, chemical engineering, mechanics, nanotechnology, and beyond. Polymer-based composites, in particular, offer a unique blend of mechanical strength, lightweight design, optical versatility, and cost-effective processing, positioning them as strong alternatives to traditional materials across a spectrum of industries, from construction and automotive to aerospace, biomedicine, and marine applications.

This Special Issue presents the latest groundbreaking research in advanced composite materials developed from both synthetic and natural polymers, reinforced with innovative (nano)fillers and fibers. Original contributions that explore new polymer matrices—including commodity, engineering, bio-based, and biodegradable polymers—and extend across thermosets and thermoplastics comprise this Special Issue.



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